

SEQUENCE LISTING

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<170> PatentIn version 3.0

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Lys Ser Trp Leu Asn Phe Leu Thr Phe Leu Tyr Gly Ser Ala Ile Gly 15 20 25

ttt att tta ttt tct cag cta ctt agt att ttg ttg gga gaa gag ggt 149
Phe Ile Leu Phe Ser Gln Leu Leu Ser Ile Leu Leu Gly Glu Glu Gly 30 35 40

gac acc cag act aat gtt ctt cat aat gat cct cat gcg agg cat tca 197
Asp Thr Gln Thr Asn Val Leu His Asn Asp Pro His Ala Arg His Ser 45 50 55

gat gat aat gga cag aat cat cta gga gga caa atg aac ttc aat gca 245
Asp Asp Asn Gly Gln Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala 60 65 70 75

gat tct agc caa cgt aaa gat gag aac aca gaa atc gct gaa aac ctc 293
Asp Ser Ser Gln Arg Lys Asp Glu Asn Thr Gln Ile Ala Glu Asn Leu 80 85 90

tat nag caa gtt aaa att ctt tgc tgg gtt atg aca ggc tct caa aac 341
Tyr Xaa Gln Val Lys Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn 95 100 105

cta cag aaa aag gcc aaa cat gtc aaa gct aca tgg gcc cag cgt tgt 389
Leu Gln Lys Lys Ala Lys His Val Lys Ala Thr Trp Gln Arg Cys 110 115 120

cta aaa gta ttt ttt atg agt tca gaa gaa aat aaa gac ttc cgt gct 437
Leu Lys Val Phe Phe Met Ser Ser Glu Glu Asn Lys Asp Phe Arg Ala 125 130 135

gtg gga ttg aaa acc aaa gca ggc aga gat gag cta tac tgg aaa aca 485
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Gln Leu Ser Ile Leu Leu Gly Glu Glu Gly Asp Thr Gln Thr Asn
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Val Leu His Asn Asp Pro His Ala Arg His Ser Asp Asp Asn Gly Gln
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Asn His Leu Gly Gly Gln Met Asn Phe Asn Ala Asp Ser Ser Gln Arg
 65 70 75 80

Lys Asp Glu Asn Thr Glu Ile Ala Glu Asn Leu Tyr Xaa Gln Val Lys
 85 90 95

Ile Leu Cys Trp Val Met Thr Gly Ser Gln Asn Leu Gln Lys Lys Ala
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Lys His Val Lys Ala Thr Trp Ala Gln Arg Cys Leu Lys Val Phe Phe
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Cys	Ile	Tyr	Ile	Thr	Leu	Asp	Asn	Leu	Lys	Trp	Leu	Leu	Thr	Asn	Tyr		
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Ser Ser Gln His 20 Lys Asp Glu Asn Thr 25 Ile Ala Glu Asn Leu Tyr
cag aaa gtt aga att ctt tgc tgg gtt atg acc ggc cct caa aac cta 145
Gln Lys Val Arg Ile Leu Cys Trp 40 Val Met Thr Gly 45 Gln Asn Leu
gag aaa aag gcc aaa cac gtc aaa gct act tgg gcc cag cgt tgt aac 193
Glu Lys 50 Lys Ala Lys His Val 55 Lys Ala Thr Trp 60 Gln Arg Cys Asn
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Lys Val Leu Phe Met Ser 70 Ser Glu Glu Asn Lys 75 Asp Phe Pro Ala Val 80
gga ctg aaa acc aaa gaa ggc aga gat caa cta tac tgg aaa aca att 289
Gly Leu Lys Thr 85 Glu Gly Arg Asp 90 Leu Tyr Trp Lys 95 Ile
aaa gct ttt cag tat gtt cat gaa cat tat tta caa gat gct gat tgg 337
Lys Ala Phe Gln 100 Tyr Val His Glu His 105 Tyr Leu Gln Asp Ala Asp Trp 110
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Phe Leu Lys 115 Ala Asp Asp Thr 120 Tyr Val Ile Leu Asp 125 Asn Leu Arg
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Trp Leu Leu Ser Lys Tyr 135 Asp Pro Glu Glu Pro 140 Ile Tyr Phe Gly Arg
aga ttt aag cct tat gta aag cag ggc tac atg agt gga gga gca gga 481
Arg Phe Lys Pro Tyr Val 150 Lys Gln Gly Tyr Met 155 Ser Gly Gly Ala Phe 160
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Tyr Val Leu Ser Lys 165 Glu Ala Lys Arg 170 Phe Val Asp Ala Phe Lys 175
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Thr Asp Lys Cys 180 Thr His Ser Ser 185 Ile Glu Asp Leu 190 Ala Leu Gly

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Lys Gly Tyr Leu Pro Arg Thr Phe Trp Tyr Trp Asn Tyr Asn Tyr	
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His Leu Arg Pro Tyr Gly Tyr Leu Tyr Arg Tyr Gln Pro Thr Leu Pro	
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Lys Val Lys Leu Gly Asn Pro	
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Gly Leu Lys Thr Lys Glu Gly Arg Asp Gln Leu Tyr Trp Lys Thr Ile
85 90 95

Lys Ala Phe Gln Tyr Val His Glu His Tyr Leu Gln Asp Ala Asp Trp
100 105 110

Phe Leu Lys Ala Asp Asp Asp Thr Tyr Val Ile Leu Asp Asn Leu Arg
115 120 125

Trp Leu Leu Ser Lys Tyr Asp Pro Glu Glu Pro Ile Tyr Phe Gly Arg
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145 150 155 160

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Thr Asp Lys Cys Thr His Ser Ser Ser Ile Glu Asp Leu Ala Leu Gly
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Arg Cys Met Glu Ile Met Asn Val Glu Ala Gly Asp Ser Arg Asp Thr
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Pro Pro Val Glu Gly Pro Gly Cys Cys Ser Asp Leu Ala Val Ser Phe
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His Tyr Val Asp Ser Thr Thr Met Tyr Glu Leu Glu Tyr Leu Val Tyr
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His Leu Arg Pro Tyr Gly Tyr Leu Tyr Arg Tyr Gln Pro Thr Leu Pro
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Glu Arg Ile Leu Lys Glu Ile Ser Gln Ala Asn Lys Asn Glu Asp Thr
290 295 300

Lys Val Lys Leu Gly Asn Pro
305 310